

CLAIMS

[Claim 1]

A skin treatment composition having a water
5 dispersion of a polymer in which a non-water
soluble film-forming polymer is dispersed in water
wherein the main ingredients of said film-forming
polymer are polyurethane having a film shrinkage
rate of 20% or less and an acrylic type polymer
10 having a film shrinkage rate of 20% or less.

[Claim 2]

The skin treatment composition for wrinkle
reduction of claim 1 wherein said polyurethane is
polyurethane obtained by reacting an isocyanate
15 compound and a diol compound containing a
polyether diol, polycarbonate diol, and alkylene
diol containing a carboxyl group.

[Claim 3]

The skin treatment composition for wrinkle
20 reduction of claim 2 comprising isophorone
diisocyanate for the isocyanate compound.

[Claim 4]

The skin treatment composition for wrinkle
reduction of claim 2 or 3 wherein the polyether
25 diol is polytetramethylene glycol, the

polycarbonate diol is polyhexamethylene carbonate diol, and the alkylene diol containing a carboxyl group is dimethylolpropionic acid and/or dimethylolbutanoic acid.

5 [Claim 5]

The skin treatment composition for wrinkle reduction of one of claims 1 to 4 wherein the acrylic type polymer is a polymer from monomers whose main ingredient is ethyl acrylate.

10 [Claim 6]

The skin treatment composition for wrinkle reduction of one of claims 1 to 5 wherein the water dispersion of an acrylic type polymer contains sulfonated polyvinyl alcohol.

15 [Claim 7]

The skin treatment composition for wrinkle reduction of one of claims 1 to 6 wherein the film strength of the polyurethane is 300-700 kg/cm² and the film strength of the acrylic type polymer is

20 0.1-100 kg/cm².

[Claim 8]

The skin treatment composition for wrinkle reduction of one of claims 1 to 7 wherein the film elongation of the polyurethane is 200-500%, and

25 the film elongation of the acrylic type polymer is

500-2000%.

[Claim 9]

The skin treatment composition for wrinkle reduction of one of claims 1 to 8 wherein the average particle size of the polyurethane in the water dispersion of polyurethane is 10-300 nm, and the average particle size of the acrylic type polymer in the water dispersion of an acrylic type polymer is 100-600 nm.

10 [Claim 10]

The skin treatment composition for wrinkle reduction of one of claims 1 to 9 wherein the polyurethane in the water dispersion of polyurethane is a mixture of particles having an average particle size of 20-60 nm and particles having an average particle size of 150-200 nm.

[Claim 11]

The skin treatment composition for wrinkle reduction of one of claims 1 to 10 that contains the polyurethane to 1-10 wt% of the total weight of the skin treatment composition and the acrylic type polymer to 1-20 wt% of the total weight of the skin treatment composition.

[Claim 12]

25 The skin treatment composition for wrinkle

reduction of one of claims 1 to 11 that further comprises scaly silica.

[Claim 13]

A skin treatment composition for wrinkle
5 reduction comprising (a) a non-emulsification type cross-linked silicone, (b) a film forming polymer having a film shrinkage rate of 20% or less containing as a main ingredient a polyurethane having a film shrinkage rate of 20%, (c) a liquid
10 oil component, and (d) water.

[Claim 14]

The skin treatment composition for wrinkle reduction of claim 13 wherein (a) the non-emulsification type cross-linked silicone is one,
15 two, or more chosen from a group consisting of a cross polymer derived from a reaction between methyl hydrogen polysiloxane and methyl vinyl polysiloxane, a cross polymer derived from a reaction between a partial long chain alkylated
20 methyl hydrogen polysiloxane and methyl vinyl polysiloxane, and a cross polymer derived from a reaction between methyl hydrogen polysiloxane and alkene.

[Claim 15]

25 The skin treatment composition for wrinkle

reduction of claim 14 wherein the number of carbons in the long chain alkyl in the partial long chain alkylated methyl hydrogen polysiloxane is 10-14.

5 [Claim 16]

The skin treatment composition for wrinkle reduction of one of claims 13 to 15 wherein the non-emulsion type cross-linked silicone is added as it is swollen with a liquid oil component.

10 [Claim 17]

The skin treatment composition for wrinkle reduction of one of claims 13 to 16 wherein said polyurethane is polyurethane obtained by reacting an isocyanate compound and a diol compound

15 containing a polyether diol, polycarbonate diol, and alkylene diol containing a carboxyl group.

[Claim 18]

The skin treatment composition for wrinkle reduction of claim 17 comprising isophorone

20 diisocyanate for the isocyanate compound.

[Claim 19]

The skin treatment composition for wrinkle reduction of claim 17 or 18 wherein the polyether diol is polytetramethylene glycol, the

25 polycarbonate diol is polyhexamethylene carbonate

diol, and the alkylene diol containing a carboxyl group is dimethylolpropionic acid and/or dimethylolbutanoic acid.

[Claim 20]

5 The skin treatment composition for wrinkle reduction of one of claims 13 to 19 wherein the film strength of the polyurethane is 300-700 kg/cm².

[Claim 21]

10 The skin treatment composition for wrinkle reduction of one of claims 13 to 20 wherein the film elongation of the polyurethane is 200-500%.

[Claim 22]

 The skin treatment composition for wrinkle
15 reduction of one of claims 13 to 21 wherein a film forming polymer having a film shrinkage rate of 20% or less containing as a main ingredient a polyurethane having a film shrinkage rate of 20% is added in the form of a water dispersion.

20 [Claim 23]

 The skin treatment composition for wrinkle reduction of claim 22 wherein the average particle size of the polyurethane in the water dispersion of polyurethane is 10-300 nm.

25 [Claim 24]

The skin treatment composition for wrinkle reduction of one of claims 22 to 23 wherein the polyurethane in the water dispersion of polyurethane is a mixture of particles having an average particle size of 20-60 nm and particles having an average particle size of 150-200 nm.

[Claim 25]

The skin treatment composition for wrinkle reduction of one of claims 13 to 24 that contains the non-emulsion type cross-linked silicone to 0.5-5.0 wt% of the total amount of the skin treatment composition and the polyurethane having a film shrinkage rate of 20% or less to 0.1-10.0 wt% of the total amount of the skin treatment

composition